## KLEAN-STRIP GILLESPIE KWIK DUFFY'S EL PICO P&D

MATERIAL SAFETY DATA SHEET

PAGE NO. 1000.2 DATE PRINTED: 3/21/2002

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

MANUFACTURERS NAME W.M. BARR & COMPANY, INC.

ADDRESS 2105 Channel Ave. Memphis, TN 38113

EMERGENCY TELEPHONE #1

EMERGENCY CONTACT W.M. Barr Technical Services

EMERGENCY INFORMATION
See Section 5 for additional Emergency Information

INVENTORY ITEM #

CHEMICAL FORMULA 1000.2

PRODUCT NAME JAPAN DRIER

REVISED BY W.M. Barr Technical Services

REVISION DATE 04/20/1994

w.m. Barr rechnical Services 04/20/1994							
SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS							
				NOGENICI			
SUBSTANCE DESCRIPTION	PERCENT	CAS#	NTP ACC	H OSHA	IARC		
MINERAL SPIRITS  ** ABOVE INGREDIENT CONSISTS	80-8 OF THE FOLLOW	B5 N/A JING **	N N	I N	N		
STODDARD SOLVENT, TYPE I 1,2,4-TRIMETHYLBENZENE ZIRCONIUM SOLUTION	95-10 0- 5- 1	8052-41-3 2 95-63-6 0 22464-99-9	N N N N	I N I N I N	N N N		
** ABOVE INGREDIENT CONSISTS ZIRCONIUM 2-ETHYLHEXONATE ISOPARAFFINS 2-ETHYLHEXANOIC ACID COBALT ALKANOTE SOLUTION	OF THE FOLLOW 50-5 40-4 1-5-1	ING ** 22464-99-9 5 64742-48-9 5 149-57-5 0 N/A	N N N N N N	I N I N I N I N	N N N N		
MINERAL SPIRITS  ** ABOVE INGREDIENT CONSISTS STODDARD SOLVENT, TYPE I 1,2,4-TRIMETHYLBENZENE ZIRCONIUM SOLUTION  ** ABOVE INGREDIENT CONSISTS ZIRCONIUM 2-ETHYLHEXONATE ISOPARAFFINS 2-ETHYLHEXANOIC ACID COBALT ALKANOTE SOLUTION  ** ABOVE INGREDIENT CONSISTS STODDARD SOLVENT COBALT 2-ETHYLHEXANOATE COBALT 12-ETHYLHEXANOATE COBALT NAPHTHENATE 2-ETHYLHEXANOIC ACID MANGANESE SOLUTION  ** ABOVE INGREDIENT CONSISTS MANGANESE SOLUTION  ** ABOVE INGREDIENT CONSISTS MANGANESE 2-ETHYLHEXANOATE LIGHT AROMATIC NAPHTHA 1,2,4-TRIMETHYLBENZENE MANGANESE NAPHTHENATE	OF THE FOLLOW 50 - 5 20 - 2 1 - 5 - 1	ING ** 8052-41-3 136-52-7 15 61789-51-3 149-57-5 0 N/A	N N N N N N N N N N N N N N N N N N N	I N I N I N I N	N N N N		
** ABOVE INGREDIENT CONSISTS MANGANESE 2-ETHYLHEXANOATE LIGHT AROMATIC NAPHTHA 1,2,4-TRIMETHYLBENZENE MANGANESE NAPHTHENATE	30 - 3 35 - 4 10 - 1 5 - 1	15956-58-8 15956-58-8 15956-58-8 15956-58-8 15956-58-8 1336-93-2	N N N N N N	I N I N I N I N	N N N N		
SECTION 3. REGULATORY INFORMATION							
EXPOSURE LIMITS/REGULATORY INFORMATION							
SUBSTANCE DESCRIPTION	REG.AGCY U/M	AWT	STEL	CEIL	SKIN	PEL	
MINERAL SPIRITS	ACGIH PPM OSHA PPM	N/E N/E	N/E N/E	N/E N/E	N N	N/E N/E	
EXXON RECOMMENDS AN OCCUPATIONAL EXPOSURE LIMIT OF 100 PPM TOTAL HYDROCARBON BASED ON COMPOSITION.							
STODDARD SOLVENT, TYPE I	ACGIH PPM OSHA PPM	100.00	N/E N/E	N/E N/E	N N	N/E 500.00	
1,2,4-TRIMETHYLBENZENE	ACGIH PPM OSHA PPM	N/E N/E	N/E N/E	N/E N/E	N N	N/E N/E	

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SECTION 3	(CONTINU	ORY INF	ORMATION				
ZIRCONIUM SOLUTION	ACGIH	MG/M3	N/E	N/E	N/E	N	N/E
	OSHA	MG/M3	N/E	N/E	N/E	N	N/E
ZIRCONIUM 2-ETHYLHEXONATE EXPOSURE LIMIT AS ZIRCONIUM.							
ZIRCONIUM 2-ETHYLHEXONATE	ACGIH	MG/M3	5.00	N/E	N/E	N	N/E
	OSHA	MG/M3	N/E	N/E	N/E	N	5.00
ACGIH TWA AND OSHA PEL AS ZIRO	CONIUM AS	PROVID	ED BY SUPPLIER	2.			
ISOPARAFFINS	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
2-ETHYLHEXANOIC ACID	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
COBALT ALKANOTE SOLUTION	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
STODDARD SOLVENT	ACGIH OSHA	PPM PPM	100.00	N/E N/E	N/E N/E	N N	N/E 500.00
COBALT 2-ETHYLHEXANOATE	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
COBALT NAPHTHENATE	ACGIH	PPM	N/E	N/E	N/E	N	N/E
	OSHA	PPM	N/E	N/E	N/E	N	N/E
MANGANESE SOLUTION	ACGIH	MG/M3	5.00	N/E	N/E	N	N/E
	OSHA	MG/M3	N/E	N/E	N/E	N	N/E
MANGANESE 2-ETHYLHEXANOATE	ACGIH	MG/M3	5.00	N/E	N/E	N	N/E
	OSHA	MG/M3	N/E	N/E	5.00	N	5.00
EXPOSURE LIMITS AS MANGANESE, AS PROVIDED BY SUPPLIER.							
LIGHT AROMATIC NAPHTHA	ACGIH OSHA	PPM PPM	N/E N/E	N/E N/E	$_{\rm N/E}^{\rm N/E}$	N N	N/E N/E
THE SUPPLIER RECOMMENDS AN EXPOSURE LIMIT OF 50 PPM, TWA.							
MANGANESE NAPHTHENATE	ACGIH	MG/M3	5.00	N/E	N/E	N	N/E
	OSHA	MG/M3	N/E	N/E	5.00	N	5.00
EXPOSURE LIMITS AS MANGANESE, AS PROVIDED BY SUPPLIER.							

ADDITIONAL REGULATORY INFO
The time weighted average (TWA) value described herein is a threshold limit value (TLV) as established by ACGIH. The permissible exposure limit (PEL) is a value established by OSHA.

CALIFORNIA (PROPOSITION #65)
Ingredients in this product are not listed on California's Prop 65
list: "Chemicals Known to the State to Cause Cancer or Reproductive Toxicity."

SEC. 313 SUPPLIER NOTIFICATION
The following information must be included in all MSDS that are copied and distributed for this material.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40CFR 372):

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3. REGULATORY INFORMATION (CONTINUED) SECTION

PERCENT BY WEIGHT SUBSTANCE DESCRIPTION CAS# (UPPER LIMIT)

1,2,4-TRIMETHYLBENZENE COBALT 2-ETHYLHEXANOATE 95-63-6 136-52-7 COBALT NAPHTHENATE 61789-51-3 MANGANESE 2-ETHYLHEXANOATE 4 15956-58-8 XYLENE 1330-20-7

 ${\tt CLEAN}$  AIR  ${\tt ACT}$  This formula contains no known ozone depleting chemicals.

HAZARD COMMUNICATION STANDARD
This document is prepared in accordance with the OSHA Hazard
Communication Standard (29 CFR 1910.1200). This MSDS contains thirteen (13) sections.

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The following effects and/or symptoms are not expected to be experienced by persons who use this product properly and according to ALL instructions, precautions, and warnings; however, should the product user experience ANY questionable effects or symptoms, the product user should immediately seek medical attention.

SECTION 4. HAZARDS IDENTIFICATION

INHALATION ACUTE EXPOSURE EFFECTS
May cause dizziness; headache; irritation of respiratory tract;
loss of coordination; drowsiness; fatigue; narcosis; weakness;
difficulty breathing; blurred vision; tightness and pain in chest;
coughing; nausea; pneumoconiosis; muscle twitches; eye irritation;
vomiting; light headedness; and depression and damage to central
nervous system. Severe overexposure may cause convulsions,
unconsciousness, and death.

SKIN CONTACT ACUTE EXPOSURE EFFECTS
May cause irritation, redness, burning, drying, and cracking of the skin.

EYE CONTACT ACUTE EXPOSURE EFFECTS
May cause redness, stinging, tearing, and irritation.

INGESTION ACUTE EXPOSURE EFFECTS
Harmful or fatal if swallowed. May cause headache; dizziness;
nausea; vomiting; drowsiness; fatigue; loss of coordination;
depression; gastrointestinal irritation; weakness; muscle twitches;
diarrhea; depression of the central nervous system; convulsions;
unconsciousness; and death. Liquid aspirated into lungs can cause
damage or chemical pneumonitis, which can be fatal.

CHRONIC EXPOSURE EFFECTS
Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage.
May cause skin irritation; drying, burning, redness, and cracking of skin; anemia; bone marrow damage; liver damage; and jaundice.

MEDICAL CONDITIONS AGGRAVATED Diseases of the skin, liver, kidneys, central nervous system, cardiovascular system, and respiratory system; psychiatric disorders; and alcoholism.

PRIMARY ROUTE OF EXPOSURE Inhalation, ingestion, and dermal.

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SECTION 5. FIRST AID MEASURES

INHALATION
If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

SKIN CONTACT Wash with soap and water.

EYE CONTACT Flush with large quantities of water for at least 15 minutes. If irritation from contact persists, get medical attention.

INGESTION
DO NOT induce vomiting. Call your poison control center, hospital
emergency room, or physician immediately.

NOTE TO PHYSICIAN
This formula is registered with POISINDEX.
Call your local poison control center for further information.

SECTION 6. FIRE FIGHTING MEASURES

HAZARD	RATING	SOURCE	HMIS	NFPA
HEALTH			2	1
FLAMMAI	BILITY		2	2
REACTIV	/ITY		0	0
OTHER			G	NA

FLASH METHOD Seta

FLASH POINT 114.00 F

45.55 C

LOWER EXPLOSION LIMIT

GENERAL COMMENTS OSHA FLAMMABILITY: Class II

**EXTINGUISHING METHOD**Use carbon dioxide, dry powder, or foam.

FIRE FIGHTING PROCEDURES
Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

FIRE AND EXPLOSION HAZARDS CAUTION! COMBUSTIBLE. KEEP AWAY FROM HEAT, SPARKS, FLAME AND ALL

OTHER SOURCES OF IGNITION.

SECTION 7. ACCIDENTAL RELEASE MEASURES

CLEAN-UP
Keep unnecessary people away; isolate hazard area and deny entry.
Stay upwind, out of low areas, and ventilate closed spaces before
entering. Shut off ignition sources; keep flares, smoking or flames
out of hazard area. SMALL SPILLS: take up liquid with sand, earth
or other noncombustible absorbent material and place in a plastic

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7. ACCIDENTAL RELEASE MEASURES (CONTINUED)

container where applicable. LARGE SPILLS: dike far ahead of spill for later disposal.

For transportation related spills contact Chemtrec at 1-800-424-9300 for emergency assistance.

WASTE DISPOSAL

Dispose in accordance with applicable local, state and federal regulations.

SECTION 8. HANDLING AND STORAGE

Keep container tightly closed when not in use. Store in a cool, dry place. Do not store near flames or at elevated temperatures.

HANDLING
Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

SECTION 9. TRANSPORT INFORMATION

TRANSPORTATION For D.O.T. information, contact W.M. Barr Technical Services Department.

SECTION 10. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION PROTECTION
Use only with adequate ventilation to prevent build-up of vapors.
Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering - STOP - ventilation is inadequate. Leave area immediately.

RESPIRATORY PROTECTION
For OSHA controlled work place and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved respirator for organic solvent vapors. A dust mask does not provide protection against vapors.

SKIN PROTECTION
Wear impermeable gloves. Gloves contaminated with product should be discarded. Promptly remove clothing that becomes soiled with product.

**EYE PROTECTION**Safety glasses, chemical goggles or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Contact lenses should not be worn while working with chemicals.

OTHER PROTECTION
Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shees or shoes.

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SECTION 11. PHYSICAL AND CHEMICAL PROPERTIES

VOLATILE % 91.21

by weight

BOILING POINT GT 300.00 F

148.88 C BOILING RANGE: 300 F - 360 F

VAPOR DENSITY (Air = 1.0)
Heavier than air

EVAPORATION RATE Slower than ether

BULK DENSITY lbs/qal at 75 F

ph FACTOR

PHOTOCHEMICALLY REACTIVE

MAX V.O.C. 730 grams per liter

SECTION 12. STABILITY AND REACTIVITY

INCOMPATIBILITIES
Incompatible with strong oxidizing agents; reducing agents;
halogens; and sulfur.

 $\frac{\texttt{DECOMPOSITION}}{\texttt{Thermal decomposition may produce carbon monoxide, carbon dioxide, and toxic fumes.}$ 

POLYMERIZATION Will not occur.

STABILITY Stable.

SECTION 13. ADDITIONAL INFORMATION

IMPORTANT NOTE
The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

PPM = parts per million
MG/M3 = milligrams per cubic meter
N/E or NE = none established GT = qreater than

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SECTION 13. ADDITIONAL INFORMATION (CONTINUED)

N/A or NA = not applicable
TCC = tag closed cup
TOC = tag open cup
PMCC = Pensky-Martens closed cup
IDLH = Immediately Dangerous to Life and Health

\*\*\*END OF MSDS\*\*\*